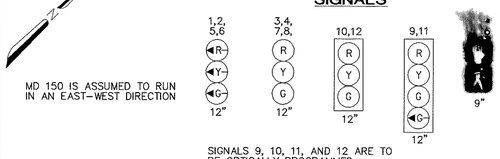
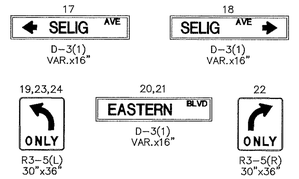
SIGNALS



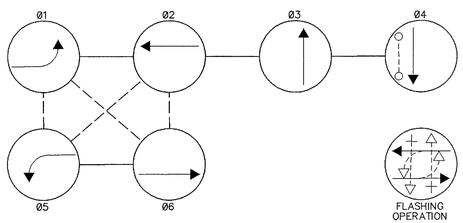
MD 150 IS ASSUMED TO RUN IN AN EAST–WEST DIRECTION

SIGNALS 9, 10, 11, AND 12 ARE TO BE OPTICALLY PROGRAMMED

SIGNS



NEMA PHASING



PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

CONSTRUCTION DETAILS

(A) INSTALL 27' STEEL POLE WITH A 70' MAST ARM, 20' STREET LIGHTING ARM, 250 WATT H.P.S. LUMINAIRE, TRAFFIC SIGNAL HEADS, SIGNS AND CONCRETE FOUNDATION (NOTE: 1–2", P.V.C. 90–DEGREE BEND).

(B) INSTALL 27' STEEL POLE WITH A 70' MAST ARM, 20' STREET LIGHTING ARM, 250 WATT H.P.S. LUMINAIRE, TRAFFIC SIGNAL HEADS, SIGNS AND CONCRETE FOUNDATION (NOTE: 1–2", P.V.C. 90–DEGREE BEND).

(C) INSTALL 14' STEEL PEDESTAL POLE, SIGNAL HEAD AND CONCRETE FOUNDATION (NOTE: 1–2", 90–DEGREE P.V.C. BEND).

(D) INSTALL BASE MOUNTED CABINET, SIZE #5 AND CONTROLLER, CONCRETE FOUNDATION, AND ALL NECESSARY EQUIPMENT FOR AN ELECTRICAL SERVICE (NOTE: 2–4", P.V.C. 90–DEGREE BEND, 2–2" P.V.C. 90–DEGREE BEND).

(E) INSTALL HANDHOLE.

(F) INSTALL 1" LIQUID TIGHT NON–METALLIC FLEXIBLE CONDUIT SLEEVE FOR DETECTOR WIRING.

(G) INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (TRENCHED).

(H) DELETE.

(J) INSTALL 4" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).

(K) INSTALL 4" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (TRENCHED).

(L) INSTALL 6'x30' LOOP DETECTOR ENCASED IN FLEXIBLE TUBING (3–6–3) QUADRUPOLE TYPE.

(M) INSTALL MICRO–LOOP PROBE DETECTOR SET.

(N) USE EXISTING HANDHOLE.

(P) INSTALL 24" SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE FOR STOP LINE.

(Q) REMOVE EXISTING STEEL PEDESTAL POLE, PEDESTRIAN SIGNAL HEAD AND FOUNDATION.

(R) REMOVE EXISTING STEEL POLE, MAST ARMS, SIGNAL HEADS, SIGNS, AND FOUNDATION.

(S) REMOVE EXISTING CONTROLLER AND FOUNDATION.

(T) REMOVE EXISTING HANDHOLE.

(U) ABANDON EXISTING LOOP DETECTOR.

(V) INSTALL SAWCUT.

(W) INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).

(X) DELETE.

(Y) DELETE.

(Z) INSTALL 12" SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE FOR CROSS WALK.

(AA) DELETE.

(BB) INSTALL 10' STEEL PEDESTAL POLE, PEDESTRAIN SIGNAL HEAD AND CONCRETE FOUNDATION (NOTE: 1–2", 90–DEGREE P.V.C. BEND).

(DD) SAWCUT, REMOVE AND REPLACE EXISTING CURB AND GUTTER.

(EE) INSTALL 14' STEEL PEDESTAL POLE, SIGNAL HEAD, PEDESTRIAN SIGNAL HEAD AND CONCRETE FOUNDATION (NOTE: 1–2", 90–DEGREE P.V.C. BEND)

(FF) DELETE.

(GG) INSTALL 6'x6' LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING.

(JJ) INSTALL 2–2" P.V.C. WEATHERHEADS, 2–2" P.V.C. RISERS AND 2–2" 90–DEGREE BENDS.

GENERAL NOTES

1. "D.O." INDICATES DELAY OUTPUT LOOP DETECTOR
2. GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
3. LOOP DETECTORS AND CONDUITS SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
4. PAVEMENT MARKING DETAILED ARE PROPOSED AND ARE TO BE INSTALLED PRIOR BY THE CONTRACTOR IN ACCORDANCE WITH S.H.A. STANDARDS ALL OTHER PAVEMENT MARKINGS WILL BE INSTALLED AS PART OF THE HIGHWAY CONTRACT.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
6. AS PART OF THIS ROAD CONSTRUCTION PROJECT SOME OVERHEAD UTILITIES WILL BE RELOCATED BY OTHERS.

UTILITY LEGEND

G — G	GAS MAIN
W — W	WATER MAIN
S — S	SEWER MAIN
SD — SD	STORM DRAIN
TV — TV	CABLE TELEVISION
E — E	ELECTRIC CABLES
T — T	TELEPHONE CABLES
A — A	AERIAL CABLES

A/E GROUP, INC.
ENGINEERS • PLANNERS
181 E. Main Street
Westminster, Maryland 21157
A/E Job No. 98–367–002

REVISIONS		
1	REBUILD EXISTING TRAFFIC SIGNAL AND INTERCONNECT.	02/09/99

APPROVALS

CHIEF, DESIGN SECTION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 150 (EASTERN BOULEVARD) AND SELIG AVENUE

LOG MI. 03015004.09 DATE: FEBRUARY 09,1999

DRAWN BY:		F.A.P. NO.		PLAN TS NO.: 3305E	SHEET NO. 32 OF 42
CHECK BY:		S.H.A. NO.			
SCALE:	1"=20'	COUNTY	BALTIMORE		